

(FILE 'HOME' ENTERED AT 10:55:00 ON 28 OCT 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS' ENTERED AT 10:55:18 ON 28 OCT 2003
L1 13231 S LACTOFERRIN
L2 260 S L1 AND (ASTHMA OR DIAPER (W) RASH OR CONTACT? (W) DERMATITIS
L3 77 S L2 AND ASTHMA
L4 46 DUPLICATE REMOVE L3 (31 DUPLICATES REMOVED)
L5 30 S L4 AND PY<=1997
L6 1 S L2 AND DIAPER
L7 22 S L2 AND DERMATITIS
L8 11 S L7 AND PY<=1997
L9 11 S L8 NOT L5
L10 11 S L8 NOT L6
L11 15 S L2 AND PSORIASIS
L12 8 S L11 AND PY<=1997
L13 5 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)

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L4 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:145305 CAPLUS
DOCUMENT NUMBER: 126:162307
TITLE: Topical preparations containing vitamin C derivatives
for treatment of skin inflammations and aging
INVENTOR(S): Akyama, Junichi; Yamamoto, Itaru
PATENT ASSIGNEE(S): Kaminomoto Honho Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08333260	A2	19961217	JP 1995-163046	19950606

AB Vitamin C derivs., i.e. ascorbic acid phosphate salts and ascorbic acid glycosides, are effective for the treatment of skin inflammations and prevention of the aging. Topical preps. may further contain an anti-inflammatory agent selected from the group consisting of indomethacin, glycyrrhizinic acid, glycyrrhetin, aspirin, and mixts. thereof and a lipid peroxide inhibitory agent selected from the group consisting of vitamin E, .beta.-carotene, **lactoferrin**, cactus ext., aloe ext., deferoxamine, BHA, BHT, and transferrin. An emulsion contg. L-ascorbic acid 2-glucoside 4, indomethacin 0.1 %, and other ingredients was formulated.

L4 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1989:619317 CAPLUS
DOCUMENT NUMBER: 111:219317
TITLE: Transdermal preparations containing immunoglobulin A
and **lactoferrin** for treatment of
dermatitis
INVENTOR(S): Okada, Tomio; Tanaka, Hiroshi
PATENT ASSIGNEE(S): Nonogawa Shoji Y. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01135726	A2	19890529	JP 1987-292738	19871119
JP 08013754	B4	19960214		

AB Transdermal prepns., which have high selectivity for *Staphylococcus aureus*

and are useful for treatment of bacteria-caused or atopic **dermatitis**, contain secretory component-conjugated IgA and **lactoferrin**. White vaselin 40.0, cetanol 10.0, beeswax 5.0, sorbitan sesquioleate 5.0, Lauromacrogol 0.5, Bu p-hydroxybenzoate 0.01, Me p-hydroxybenzoate 0.01, secretory component-conjugated IgA 0.3, and **lactoferrin** 0.5% by wt. were mixed to give an ointment, which was effective for pyoderma and atopic **dermatitis** in humans.

L4 ANSWER 16 OF 27 MEDLINE

DUPPLICATE 2

ACCESSION NUMBER: 97147583 MEDLINE

DOCUMENT NUMBER: 97147583 PubMed ID: 8994355

TITLE: Subthreshold UV radiation-induced peroxide formation in cultured corneal epithelial cells: the protective effects of **lactoferrin**.

AUTHOR: Shimmura S; Suematsu M; Shimoyama M; Tsubota K; Oguchi Y; Ishimura Y

CORPORATE SOURCE: Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan.

SOURCE: EXPERIMENTAL EYE RESEARCH, (1996 Nov) 63 (5) 519-26.
Journal code: EPL; 0370707. ISSN: 0014-4835.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199701

ENTRY DATE: Entered STN: 19970219

Last Updated on STN: 19970219

Entered Medline: 19970130

AB Acute exposure to suprathreshold ultraviolet B radiation (UV-B) is known to cause photokeratitis resulting from the necrosis and shedding of corneal epithelial cells. However, the corneal effects of low dose UV-B in

the environmental range is less clear. In this study, subthreshold UV-B was demonstrated to cause non-necrotic peroxide formation in cultured corneal epithelial cells, which was attenuated by the major tear protein **lactoferrin**. Intracellular oxidative insults and cell viability of rabbit corneal epithelial cells (RCEC) were assessed by dual-color digital

microfluorography using carboxydichlorofluorescin (CDCFH) diacetate bis (acetoxymethyl) ester, a hydroperoxide-sensitive fluoroprobe, and propidium iodide (PI), respectively. The magnitude of **UV-induced** oxidative insults was calibrated by concentrations of exogenously applied H₂O₂ which evoke compatible levels of CDCFH oxidation.

Exposure of RCEC to low-dose UV-B (2.0 mJ cm⁻² at 313 nm, 10.0 mJ cm⁻² total UV-B) caused intracellular oxidative changes which were equivalent to those elicited by 240 microM hydrogen peroxide under the conditions of the study. The changes were dose dependent, non-necrotic, and were partially inhibited by **lactoferrin** (1 mg ml⁻¹) but not by iron-saturated **lactoferrin**. Pretreatment with deferoxamine (2 mM) or catalase (100 U ml⁻¹) also attenuated the **UV-induced** oxidative stress. The results indicate that UV-B comparable to solar irradiation levels causes significant intracellular peroxide formation in corneal epithelial cells, and that **lactoferrin** in tears may have a physiological role in protecting the corneal epithelium from solar UV irradiation.

L4 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:612679 CAPLUS
DOCUMENT NUMBER: 125:230803
TITLE: Pharmaceutical and cosmetic compositions containing histamine and interleukin and .alpha.-tumor necrosis factor antagonists
INVENTOR(S): De Lacharriere, Olivier; Breton, Lionel; Cohen, Catherine
PATENT ASSIGNEE(S): Oreal S. A., Fr.
SOURCE: Can. Pat. Appl., 25 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2166179	AA	19960629	CA 1995-2166179	19951227
FR 2728793	A1	19960705	FR 1994-15796	19941228
FR 2728793	B1	19970207		
EP 729750	A1	19960904	EP 1995-402677	19951128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE				
JP 08231432	A2	19960910	JP 1995-341294	19951227
US 5658581	A	19970819	US 1995-580291	19951228
US 5993833	A	19991130	US 1997-879889	19970620
PRIORITY APPLN. INFO.:			FR 1994-15796	19941228
			US 1995-580291	19951228

AB The title compns. are disclosed. A lotion contained cetirizine 0.001, antioxidants 0.05, isopropanol 40.00, preservatives 0.30, and water q.s. 100%.

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(FILE 'HOME' ENTERED AT 09:16:00 ON 01 JUN 2001)

FILE 'MEDLINE, CAPLUS, BIOSIS' ENTERED AT 09:16:15 ON 01 JUN 2001

L1 11130 S LACTOFERRIN
L2 510259 S INFLAMMAT?
L3 5 S ANTIINFLAMMMAT?
L4 97544 S ANTI-INFLAMMAT?
L5 135 S L1 AND L4
L6 64 S L5 AND LACTOFERRIN/TI
L7 9 S L6 AND ANTI-INFLAMMAT?/TI
L8 7 DUPLICATE REMOVE L7 (2 DUPLICATES REMOVED)
L9 54106 S ALLERGEN
L10 5428 S L9 AND L2
L11 1602 S L10 AND ALLERGEN/TI
L12 436 S L11 AND INFLAMMAT?/TI
L13 60 S L12 AND (CLASS? OR TYPE) (S) INFLAMMAT?
L14 32 DUPLICATE REMOVE L13 (28 DUPLICATES REMOVED)
L15 7 S L14 AND PY<=1996
L16 9 S L5 AND ALLERGEN (W) INDUCED
L17 4 DUPLICATE REMOVE L16 (5 DUPLICATES REMOVED)

=> s 11 and 12

L18 1204 L1 AND L2

L10 ANSWER 9 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 1996:15421 BIOSIS
DOCUMENT NUMBER: PREV199698587556
TITLE: Effects of bovine kappa-casein and lactoferrins
on several experimental models of allergic
diseases.
AUTHOR(S): Otani, H.; Yamada, Y.
CORPORATE SOURCE: Lab. Applied Biochemistry Animal Products, Faculty
Agriculture, Shinshu Univ., Minamiminowa-mura 399-45, Japan
SOURCE: Milchwissenschaft, (1995) Vol. 50, No. 10, pp. 549-552.
CODEN: MILCAD. ISSN: 0026-3788.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 12 Jan 1996
Last Updated on STN: 12 Jan 1996
AB Effects of bovine kappa-casein, **lactoferrin** and peptic
lactoferrin on vascular permeability, *in vitro* histamine release,
complement-dependent cytolysis, reversed passive Arthus reaction, picryl
chloride-induced **contact dermatitis** and delayed-type
hypersensitivity were studied using experimental animal models. All
proteins tested, ie., kappa-casein, **lactoferrin** and peptic
lactoferrin, increased the vascular permeability in guinea pigs.
kappa-Casein and **lactoferrin** obviously inhibited *in vitro*
histamine release from rat mast cells, whereas peptic **lactoferrin**
did not. Moreover, **lactoferrin** inhibited complement-dependent
cytolysis to sheep red blood cells (SRBC) in a dose-dependent fashion,
whereas kappa-casein and peptic **lactoferrin** had no effect.
Arthus reaction, picryl chloride-induced **contact dermatitis** and delayed-type hypersensitivity to SRBC were not
modulated by any of these 3 proteins. These results indicate that bovine
kappa-casein and **lactoferrin** suppressed a passive cutaneous
anaphylactic reaction via inhibiting the vasoactive amine release whereas
these same proteins had no effect on the Arthus reaction or delayed-type
hypersensitivity.

L4 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:131791 CAPLUS
DOCUMENT NUMBER: 118:131791
TITLE: Lipid peroxide formation inhibitors containing
lactoferrin for cosmetics, food, and
pharmaceuticals
INVENTOR(S): Tomono, Norihiro; Chikamatsu, Yoshihiro; Hasebe,
Kohei; Inagaki, Masaki; Ando, Yutaka
PATENT ASSIGNEE(S): Ichimaru Pharcos Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04334310	A2	19921120	JP 1991-130662	19910501
AB	Lipid peroxide formation inhibitors contg. lactoferrin as an active ingredient are claimed. Bovine lactoferrin at 0.1% showed 100% inhibition on UV-induced peroxidn. of linoleic acid. A peel-off pack contg. H2O 66.5, glycerin 5.0, propylene glycol 4.0, poly(vinyl alc.) 15.0, EtOH 8.0, polyoxyethylene glycol 1.0, p-HOC ₆ H ₄ CO ₂ Me 0.2, perfume 0.2, and lactoferrin 0.1 wt.% was prep'd.			

L8 ANSWER 6 OF 7 MEDLINE DUPLICATE 1
ACCESSION NUMBER: 96001603 MEDLINE
DOCUMENT NUMBER: 96001603 PubMed ID: 8526014
TITLE: **Anti-inflammatory** capacities of human
milk: **lactoferrin** and secretory IgA inhibit
endotoxin-induced cytokine release.
AUTHOR: Hanson L A; Mattsby-Baltzer I; Engberg I; Roseanu A;
Elverfors J; Motas C
CORPORATE SOURCE: Department of Clinical Immunology, University of Goteborg,
Sweden.
SOURCE: ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1995) 371A
669-72.
PUB. COUNTRY: Journal code: 2LU; 0121103. ISSN: 0065-2598.
United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199601
ENTRY DATE: Entered STN: 19960219
Last Updated on STN: 19970203
Entered Medline: 19960124

L8 ANSWER 7 OF 7 MEDLINE DUPLICATE 2
ACCESSION NUMBER: 95282643 MEDLINE
DOCUMENT NUMBER: 95282643 PubMed ID: 7762426
TITLE: The role of **lactoferrin** as an anti-inflammatory molecule.
AUTHOR: Britigan B E; Serody J S; Cohen M S
CORPORATE SOURCE: Department of Internal Medicine, VA Medical Center, Iowa City, Iowa, USA.
CONTRACT NUMBER: AI28412 (NIAID)
AI92959 (NIAID)
HL44275 (NHLBI)
SOURCE: ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1994) 357
143-56. Ref: 102
Journal code: 2LU; 0121103. ISSN: 0065-2598.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199506
ENTRY DATE: Entered STN: 19950707
Last Updated on STN: 20000303
Entered Medline: 19950623
AB The formation of hydroxyl radical via the iron catalyzed Haber-Weiss reaction has been implicated in phagocyte-mediated microbicidal activity and inflammatory tissue injury. The fact that neutrophils contain **lactoferrin** and mononuclear phagocytes have the capacity to acquire exogenous iron has suggested that iron bound to **lactoferrin** may influence the nature of free radical products generated by these cells. Over the years the iron-**lactoferrin** complex has been heralded as both a promoter and inhibitor of hydroxyl radical formation. This manuscript is intended to provide an overview of work performed to date related to this controversy and to present results of a number of preliminary studies which shed further light on the role of **lactoferrin** in inflammation.

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:382957 CAPLUS
DOCUMENT NUMBER: 134:40716
TITLE: **Anti-inflammatory and immunoregulatory properties of lactoferrin**
AUTHOR(S): Brock, Jeremy H.; Guillen, Cristina; Thompson, Claire
CORPORATE SOURCE: Department of Immunology and Bacteriology, University of Glasgow, Western Infirmary, Glasgow, G11 6NT, UK
SOURCE: Int. Congr. Ser. (2000), 1195(Lactoferrin: Structure, Function and Applications), 119-128
CODEN: EXMDA4; ISSN: 0531-5131
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with 59 refs. A variety of **anti-inflammatory** and **immunomodulatory** effects have been reported for **lactoferrin**. These include binding of free iron at sites of local inflammation, modulation of T and B lymphocyte proliferation and maturation, regulation of NK cell activity, and modulation of cytokine prodn. These are related here to the biochem. properties of **lactoferrin**, in particular, its ability to bind iron and to interact with other mols. and cell surfaces. The regulation of **lactoferrin** synthesis and release by neutrophils is discussed. Also, the occurrence of anti-**lactoferrin** autoantibodies is discussed, as well as the effect of antibodies on the iron-binding properties of **lactoferrin**. At physiol. pH (7.4) antibodies prevent iron binding but do not release iron already bound. In contrast, at pH 5 antibodies induce release of iron from **lactoferrin**. Thus, antibodies may interfere with the ability of **lactoferrin** to sequester potentially toxic free iron at sites of inflammation.
REFERENCE COUNT: 59
REFERENCE(S):
(1) Afeltra, A; Clin Exp Immunol 1997, V109, P279 CAPLUS
(2) Afeltra, A; Endocrine Res 1998, V24, P185 CAPLUS
(4) Brock, J; Adv Exp Biol Med 1998, V443, P305
CAPLUS
(5) Brock, J; Immunol Today 1995, V16, P417 CAPLUS
(6) Brock, J; J Nutr Immunol 1993, V2, P47 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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Terms	Documents
L5 and lactoferrin.clm.	43

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- IBM Technical Disclosure Bulletins

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result set

DB=USPT,PGPB; PLUR=YES; OP=AND

<u>L6</u>	L5 and lactoferrin.clm.	43	<u>L6</u>
<u>L5</u>	L3	297	<u>L5</u>

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=AND

<u>L4</u>	L3	13	<u>L4</u>
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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=AND

<u>L3</u>	L2 and (asthma or diaper adj rash or contact adj dermatitis or uv adj induced adj inflammat\$ or psoriasis or arthritis)	310	<u>L3</u>
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<u>L2</u>	lactoferrin	2134	<u>L2</u>
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DB=USPT; PLUR=YES; OP=AND

<u>L1</u>	lactoferrin	855	<u>L1</u>
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Terms	Documents
L9 and l2	3

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=AND

<u>L10</u>	L9 and l2	3	<u>L10</u>
<u>L9</u>	Interleukin-1 adj antagonist\$	61	<u>L9</u>
<u>L8</u>	Interleukin-1 adj antagonists	61	<u>L8</u>
<u>L7</u>	L6 and l2	18	<u>L7</u>
<u>L6</u>	asthma	27921	<u>L6</u>
<u>L5</u>	L4 and l2	22	<u>L5</u>
<u>L4</u>	L3 and allergen	1499	<u>L4</u>
<u>L3</u>	inflammat\$ or antiinflammat\$	105086	<u>L3</u>
<u>L2</u>	lactoferrin\$	1377	<u>L2</u>
<u>L1</u>	2596986 or 2641696	34	<u>L1</u>

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